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मानक

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“Step Out From the Old to the New”

IS 12152 (1987): Pocket Frame, Braille Writing [MHD 10: Medical Laboratory Instruments]



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“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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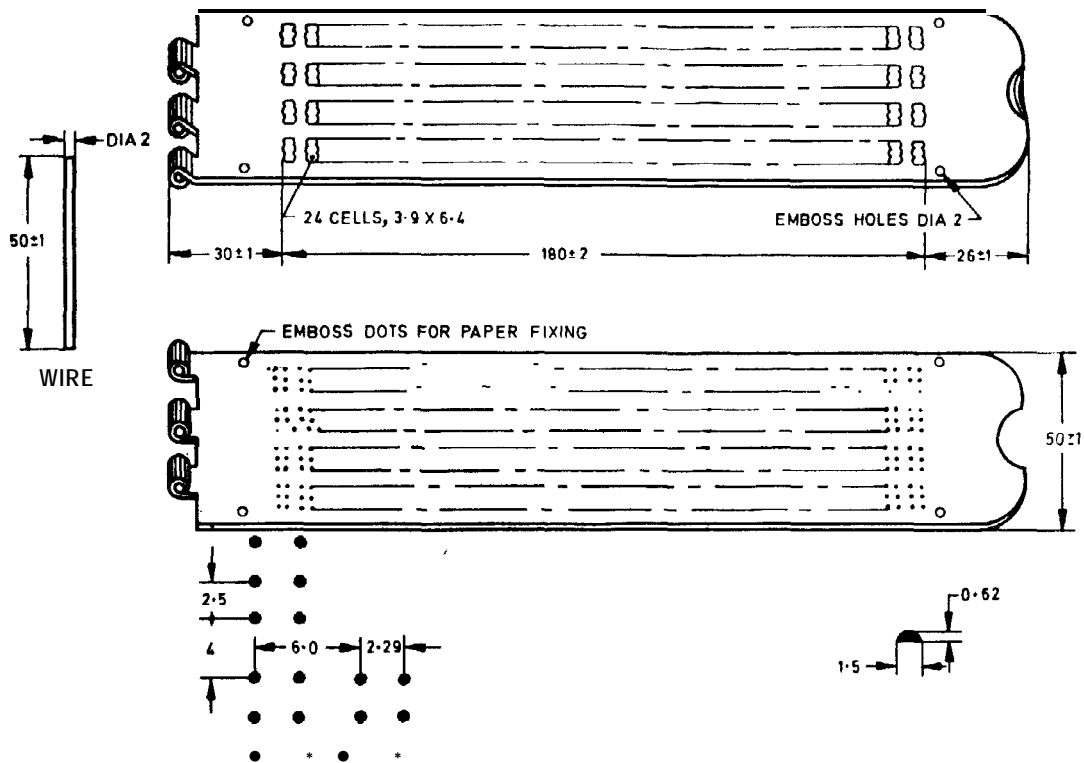


Indian Standard

SPECIFICATION FOR

POCKET FRAME, BRAILLE WRITING

1. Scope — Specifies dimensions and other requirements for pocket frame used for writing braille.
2. Shape and Dimensions — The shape and dimensions of the 4 lines pocket frame shall be as shown in Fig. 1. The pocket frame may also have 6 or 8 lines with width as 75 or 100 mm, other details remaining the same according to Fig. 1.



All dimensions in millimetres.
FIG. 1 POCKET FRAME

- 2.1 Tolerances, wherever not specified on various dimensions, shall be permitted as given below:
- a) ± 0.05 mm on dimensions up to 2.0 mm,
- b) ± 0.1 mm on dimensions above 2.0 mm and up to 5.0 mm,
- c) ± 0.2 mm on dimensions above 5.0 mm and up to 20.0 mm,
- d) ± 0.5 mm on dimensions above 20.0 mm and up to 50.0 mm,
- e) ± 1.0 mm on dimensions above 50.0 mm and up to 100.0 mm,
- f) ± 2.0 mm on dimensions above 100.0 mm and up to 200.0 mm, and
- g) ± 5.0 mm on dimensions above 200.0 mm.
3. Material
- 3.1 Writing Guide — Cold rolled carbon steel sheets, aluminium alloy, plastics (ABS type) or any other suitable material. The minimum thickness for aluminium sheet shall be 1.60 mm.
4. Construction — The pocket frame shall have the cells embossed as shown in Fig. 1. The two flaps of the frame shall be hinged at one end ensuring perfect alignment between the guide frame and the bottom frame. Locating pins and holes shall be provided at four ends to serve

dual purpose. that is, to hold the paper firmly and align the top and bottom frame perfectly. A sliding latch may be provided to lock the plates in position. The assembly of the hinge shall be **pressfit** so as to retain the plates in open or closed position.

5. **Workmanship and Finish** — The writing guide shall not have any sharp edges, rough surfaces or any other imperfections. It shall be suitably polished and finished smooth. The aluminium components shall be anodized [see IS : 1868-1 982 Specification for anodic coatings on **aluminium** and its alloy (**second revision**)]. The steel components shall be plated chromium over nickel [see IS : 1068-1968 Specification for electroplated coatings of nickel and chromium on iron and steel (**first revision**)] **or** galvanized [see IS : 2629-1966 Recommended practice for hot-dip galvanizing of iron and steel].

6. **Marking** — The pocket frame top shall be marked with manufacturer's name, initials or recognized trade-mark.

6.1 **Standard Mark** — Details available with the Bureau of Indian Standards.

7. **Packing** — As agreed to between the purchaser and the supplier.

8. **Sampling** — Sampling scheme and criteria for acceptance shall be as agreed to between the manufacturer and the purchaser. However, a recommended sampling plan is given in Appendix A.

APPENDIX A

(Clause 8)

A-1. Lot — In any consignment, all the pocket frames of the same size and produced under similar conditions from the same raw material shall constitute a lot.

A-2. The number of frames to be selected from each lot shall depend upon the size of the lot and shall be in accordance with col 1 and 2 of Table 1.

TABLE 1 SCALE OF SAMPLING

Lot Size	Sample Size
Up to 25	3
26 to 100	5
101 to 150	8
151 to 500	13
501 and above	20

A-2.7 These frames shall be selected from the lot at random and in order to ensure the randomness of selection, procedures given in IS : 4905-1968 'Methods for random sampling' may be followed.

A-3. **Number of Tests and Criteria for Conformity** — All the frames selected at random in accordance with col 1 and 2 of Table 1 shall be tested for shape and dimensions, construction, workmanship and finish. The lot shall be considered as conforming to these requirements, if none of the frames in the sample is found to be defective in any of these tests.

EXPLANATORY NOTE

Pocket frame is a portable device for braille writing used by the visually impaired persons. In this standard, the size of the frame, dot sizes and interchangeable dimensions have been standardized. An optional sampling plan is also given.